IN THE SPECIFICATION:

Please replace the paragraph at page 11, lines 6-16, with the rewritten paragraph shown below:

The separation of two random signals arriving simultaneously is effected by the receiver which tolerates undetected individual values for this purpose. This is possible due to the high pulse rate. ~~The non-synchronized burst transmissions could be synchronized as a supplementary measure by a receiver module in the transmitters.~~ The analogue reception signals received at the HF front end are digitized in an evaluating unit and the reception time points of the signals from the respective transmitters are determined in relation to the reference time point. For the processing of the received signals, the splitting up of the received signal into a plurality of signal sources (distinguishing the transmitters) and the characterization of the momentary path of movement for each transmitted signal, use is made of software operating with a certain methodology which incorporates several algorithms having variable parameters. These are adapted and combined interactively in dependence on the situation.